

CLAIMS

Sub B1
1. An immunochemical assay for anti-HM1.24 antibody, said method comprising the steps of reacting soluble HM1.24 antigen protein and anti-HM1.24 antibody contained in a test sample, and then detecting or determining the anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein.

2. The immunochemical assay according to claim 1 wherein said soluble HM1.24 antigen protein is bound to a support.

3. An immunochemical assay for soluble HM1.24 antigen protein, said method comprising the steps of reacting anti-HM1.24 antibody and soluble HM1.24 antigen protein contained in a test sample, and then detecting or determining the soluble HM1.24 antigen protein bound to the anti-HM1.24 antibody.

4. The immunochemical assay according to claim 3 wherein said anti-HM1.24 antibody is bound to a support.

5. The immunochemical assay according to ~~any of~~ ^{claim 1} ~~claims 1 to 4~~ wherein said soluble HM1.24 antigen protein is fused to another peptide or polypeptide.

6. The immunochemical assay according to ~~claim 2~~ ^{or 4} wherein said support is beads or a plate.

^{claim 1} 7. The immunochemical assay according to ~~any of~~ ~~claims 1 to 6~~ wherein the anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein or the soluble HM1.24 antigen protein bound to the anti-HM1.24 antibody is detected or determined using a primary antibody against the anti-HM1.24 antibody or a primary antibody against the soluble HM1.24 antigen protein.

^{claim 1} 8. The immunochemical assay according to ~~any of~~ ~~claims 1 to 7~~ wherein the anti-HM1.24 antibody bound to the soluble HM1.24 antigen protein or the soluble HM1.24 antigen protein bound to the anti-HM1.24 antibody is detected or determined using a primary antibody against the anti-HM1.24 antibody or a primary antibody against the soluble HM1.24 antigen protein, and a second antibody

claim 9. The immunochemical assay according to ~~any of~~
~~claims 1 to 8~~ wherein the primary antibody or the second
antibody is labeled with a radioisotope, an enzyme,
biotin/avidin or a fluorogenic substance.

11'. A fusion protein of the soluble HM1.24 antigen protein according to claim 10 and another peptide or polypeptide.

$\frac{d}{dt} \left(\int_{\Omega(t)} u dx + \int_{\Gamma(t)} v dy \right) = - \int_{\partial \Omega(t)} p n_i x_i dt$

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